#### CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
EXTIBIT R 2, RB raz Baaget tem dasimoation							Februar	ry 2005
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMEN	CLATURE		,
RESEARCH DEVELOPMENT TEST & EVALUA	TION, NAVY /	BA-7			0305205N Endurar	nce Unmanned Ae	rial Vehicles	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	95.181	85.799	0.000	29.339	121.388	253.422	242.223	127.397
3061 Global Hawk Martime Demo Sys	75.375							
4020 BAMS UAV	19.806	85.799	0.000	29.339	121.388	253.422	242.223	127.397
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFI This program provides for the development of High Altituc Surveillance as a standoff persistent, Intelligence, Surveilla	de Endurance (HAE)				provide warfighters	with the dedicate	ed capability for Bro	ad Area Maritime
Global Hawk Maritime Demonstration (GHMD) System	n. The Secretary of t	the Navy directed p	procurement of two	o USAF Global H	awk Aircraft to incl	ude the air vehicle	e and associated su	upport equipment,

integration of maritime payloads, SIGINT and communications for demonstration and experimentation purposes. The GHMD System will serve as fleet asset for the development of UAV Concept of Operations (CONOPS), tactics, techniques and procedures and cultural building for Navy High Altitude Endurance (HAE) UAVs. This project was initiated in FY 2003 in PE 0305204N, Tactical Unmanned Aerial Vehicles.

Broad Area Maritime Surveillance (BAMS) UAV has been designated a pre-Major Defense Acquisition Program (MDAP) for the development and fielding of a Long Endurance UAV for the maritime/littoral environment. The BAMS UAV will provide Carrier Strike Group (CSG), Expeditionary Strike Group (ESG) and Joint Forces Maritime Component Commanders (JFMCC) with a persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) capability. BAMS UAV will consist of air vehicles, payloads and ground/surface systems. The BAMS UAV program is structured to meet the need for persistent maritime ISR and to complement other ISR platforms.

R-1 SHOPPING LIST - Item No.

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**Exhibit R-2, RDTEN Budget Item Justification** (Exhibit R-2, page 1 of 9)

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AN	D NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-7	0305205N Endurar	nce Unmanned Aer	ial Vehicles		4020 BAMS UAV			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
4020 BAMS UAV	19.806	85.799		29.339	121.388	253.422	242.223	127.397
RDT&E Articles Qty					2			

#### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Broad Area Maritime Surveillance (BAMS) UAV has been designated a pre-Major Defense Acquisition Program (MDAP) for the development and fielding of a Long Endurance UAV for the maritime/littoral environment. The BAMS UAV will provide Carrier Strike Group (CSG), Expeditionary Strike Group (ESG) and Joint Forces Maritime Component Commanders (JFMCC) with a persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) capability. BAMS UAV will consist of air vehicles, payloads and ground/surface systems. The BAMS UAV program is structured to meet the need for persistent maritime ISR and to complement other ISR platforms.

The BAMS UAV ORD was signed by the CNO 17 May 2004. Two mission needs statement (MNS) Support the requirement; 1) BAMS and Littoral Armed ISR MNS, and 2) Long Endurance, Reconnaissance, Surveillance and Target Acquisition (RSTA) Capability MNS.

The BAMS UAV will be an evolutionary based acquisition and will use a competitive acquisition strategy. The program will be conducting pre-systems acquisition activities prior to MS B. These activities will consist of documentation development, demonstrations, and study contracts.

FY 2005 funding will be used to forward finance FY 2006 requirements.

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Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, page 2 of 9)

### **CLASSIFICATION:**

FY 04  FY 04  FY 04  FY 04  FY 04  FY 04  15.231	FY 05 47.500	PROJECT NUMBER AND N 4020 BAMS UAV  FY 06  rmance data. Contracts will be us	FY 07 10.000 sed to support the demonstrations, which
FY 04  FY 04  FY 04  FY 04	FY 05 47.500  vehicle and sensor perfo	FY 06  rmance data. Contracts will be us	FY 07 10.000 sed to support the demonstrations, which
FY 04 s and obtain UAV air v	FY 05 47.500 vehicle and sensor perfo	FY 06  rmance data. Contracts will be us	sed to support the demonstrations, which
s and obtain UAV air v	47.500  vehicle and sensor perfo	rmance data. Contracts will be us	sed to support the demonstrations, which
s and obtain UAV air v	47.500  vehicle and sensor perfo	rmance data. Contracts will be us	sed to support the demonstrations, which
FY 04	vehicle and sensor perfores		sed to support the demonstrations, which
FY 04	FY 05		FY 07
FY 04	FY 05		FY 07
		. 1 00	-
13.231			13.836
	20.020		10.000
demonstrations using nagement; system inte provisioning planning,	surrogate and UAV plati egration and interoperab and Joint and Internation	orms. Logistics supportability ana ility planning; systems engineering nal Cooperation.	lyses and environmental planning; develop g and technology maturity reviews; prograr
		FY 06	FY 07
4.373	9.770		5.503
cro	umentation; capability demonstrations using nagement; system into	umentation; capability refinement and open sydemonstrations using surrogate and UAV platfinagement; system integration and interoperability or ovisioning planning, and Joint and Internation  FY 04 FY 05  4.575 9.776	4.575 9.776

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**UNCLASSIFIED** 

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, page 3 of 9)

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
						February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	R AND NAME		PROJECT NUMBER	R AND NAME	
RDT&E, N / BA-7	0305205N Endurance Unmann	ed Aerial Vehicle	s	4020 BAMS UAV		
C. PROGRAM CHANGE SUMMARY:						
Funding:	FY 04	FY 05	FY 06	FY 07		
Previous President's Budget:	24.767		141.796			
Current BES/President's Budget	19.806		0.000			
Total Adjustments	-4.961	-27.639	-141.796	-116.788		
Summary of Adjustments						
Congressional program reductions		-15.000				
Congressional undistributed reduction	าร	-2.620				
Congressional rescissions						
SBIR/STTR Transfer						
Other		-10.019	-141.796			
Economic Assumptions	-0.023			0.561		
Reprogrammings	-4.938					
Congressional increases						
Subtotal	-4.961	-27.639	-141.796	-116.788		
Schedule:						
Schedule profile rephased to reflect a new Mile	estone B in Q4 FY07.					
Technical:						
Not Applicable						

#### CLASSIFICATION:

HIBIT R-2a, RDT&	E Project Justification								DATE:			
										Februa	ry 2005	
PROPRIATION/BUDGE	T ACTIVITY		PROGRAM EI	LEMENT NUME	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
T&E, N /	BA-7		0305205N End	durance Unmar	nned Aerial Vel	nicles	4020 BAMS U	AV				
D. OTHER PROGR	AM FUNDING SUMMARY:	:										
				=1/		=,,,,,,,,				То	Total	
Line Item No. & N	<u>ame</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost	
APN 044200 BAMS APN Initial Spares:	UAV 060510 BAMS UAV								302.983 14.289			
E. ACQUISITION STR												
	ogram will develop and field -shelf (COTS) technology w				II segments of	the BAMS UA	V system (i.e., a	ir vehicle, grou	nd segment ar	d payloads).		
	I be an evolutionary based a D) phase with a Milestone E						B. The program	n will advance	to the System I	Development and		

#### CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pa	age 1)										February 200	)5	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E	LEMENT			PROJECT N	JMBER AND	D NAME				
RDT&E, N / BA-7			0305205N En	ndurance Unma	nned Aerial Vel		4020 BAMS l						
Cost Categories	Contract	Performing		Total		FY 05		FY 06		FY 07			
	Method & Type	Activity & Location		PY s Cost	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	α rype	Location		COSI	Cost	Date	Cost	Date	Cost	Date	Complete	0.000	
Ancillary Hardware Development												0.000	
Aircraft Integration												0.000	
Ship Integration												0.000	
Ship Suitability												0.000	
Systems Engineering												0.000	
Studies & Analysis	C/FFP	Various			47.500	04/05			10.000	11/06	0.000	1	1
Licenses										1,,00		0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal Product Development				0.000	47.500		0.000	)	10.000		0.000		
Development Support/Demo's	Various	Various			5.373	02/05			2.268	11/06		7.641	ı
Software Development												0.000	)
Integrated Logistics Support	Various	Various		2.196	2.928	12/04			1.245	11/06	Continuing	Continuing	J
Configuration Management												0.000	)
Technical Data												0.000	)
Studies & Analyses	Various	Various			5.765	02/05			3.655	11/06	Continuing	Continuing	J
GFE												0.000	
Award Fees												0.000	)
Subtotal Support				2.196	14.066		0.000	)	7.168		Continuing	Continuing	1
Remarks:.													

### CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pa	age 2)										February 20	05	
APPROPRIATION/BUDGET ACTIV	VITY		PROGRAM E				PROJECT N		D NAME				
RDT&E, N / BA-7			0305205N End		nned Aerial Ve		4020 BAMS I		•				
Cost Categories	Contract	Performing		Total PY s	FY 05	FY 05	FY 06	FY 06	FY 07	FY 07	0	Tatal	Tausset Malice
	Method & Type	Activity & Location		Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	и туро	Location		0001	Coor	Date	0001	Date	0001	Dato	Continuing		
Operational Test & Evaluation											Continuing		1
Live Fire Test & Evaluation												0.000	+
Test Assets												0.000	)
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	)
Subtotal T&E				0.000	0.000	)	0.000	)	0.00	0	Continuing	Continuing	1
Contractor Engineering Support	Various	Various		0.512	0.822	2 12/04	<u> </u>		0.97	2 11/06	Continuing	Continuing	1
Government Engineering Support	WX	Various		12.523	1				6.66	+	Continuing		1
Program Management Support	Various	Various		4.500	1				4.45		Continuing		1
Travel				0.075	0.150	10/04			0.07	5 10/06	Continuing	Continuing	
Transportation												0.000	)
SBIR Assessment												0.000	)
Subtotal Management				17.610	24.233	3	0.000	)	12.17	1	Continuing	Continuing	J
Remarks:													
Total Cost				19.806	85.799		0.000	)	29.33	9	Continuing	Continuing	1
Remarks:													

#### **CLASSIFICATION:**

EXHIBIT R4, Schedul	le Profi	le																								DATE	:	F	ebrua	ry 20	05		
APPROPRIATION/BUDGE	ET ACTI	/ITY								PROC	RAM	ELEM	ENT N	IUMBE	R AND	NAM	Е					PROJ	IECT N	UMB	ER AN	ID NAN	ΛE						
RDT&E, N /	BA-	7								03052	05N E	ndurar	nce Ur	manne	ed Aeria	al Vehi	cles					4020	BAMS	UAV									
Fiscal Year			200	4			2005	5			20	06			200	07			20	008			200	)9			20	10			20	11	
	1		2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones																	MS B																
Systems Engineering Activities										Pre-Sy	stems	Acqui	sition /	Activitie	s			$\setminus$						<u> </u>									
																		SRR				/\ PDR			CDR								l
Contracting Various Activities										Δ																							
																		SDD (	CA														
Test & Evaluation Activities																									Integra	ited SIL	. & Fliç	ht Tes	t Comb	oined (	CT/ DT	/ OT	
																											C	 T-B1 (	OA)				
System Deliveries																												EDM [	)el			EDM D	)el

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail						DATE:							
	Inno on · · · -	EMENT			Inno inot : ::	February 2005							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E					NUMBER AND NAME							
RDT&E, N / BA-7	0305205N En	durance Unma	nned Aerial Ve	hicles	4020 BAMS U	020 BAMS UAV							
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011					
Milestone B (MS B)				4Q									
Pre-Systems Acquisition Activities		3Q-4Q	1Q-4Q	1Q-4Q									
Systems Requirements Review (SRR)					1Q								
Preliminary Design Review (PDR)						1Q							
Critical Design Review (CDR)						4Q							
SDD CA					1Q								
Combined CT/DT/OT					4Q	1Q-4Q	1Q-4Q	1Q-4Q					
OT-B1 (OA)							3Q						
EDM Delivery 1							2Q						
EDM Delivery 2								2Q					
					1								
					+								
					1								
					+								
					1								
					1								

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